

**ABSTRACT**

Voltage converter (SCW) for converting a primary/secondary voltage ( $U_p/U_s$ ) into  
5 a secondary/primary voltage ( $U_s/U_p$ ), comprising at least one controlled switch ( $S_p, S_s$ ),  
wherein a control circuit (AST) controls, according to its supplied set points, the at least  
one controlled switch ( $S_p, S_s$ ) with a variable pulse duty factor and/or variable control  
times and/or variable frequency, characterized in that a digital signal processor (DSP) for  
the running calculation of the set points is provided for the control circuit (AST) and the  
10 voltage converter (SCW) comprises a (bus) interface (BSS), via which operating  
parameters (ppm) can be transmitted to the digital signal processor (DSP) and can be  
preset from an external control center (ELS).

Fig. 1